

2.2 Add Real Numbers

TEKS a.1, a.6;
8.2.B



Before

You added positive numbers.

Now

You will add positive and negative numbers.

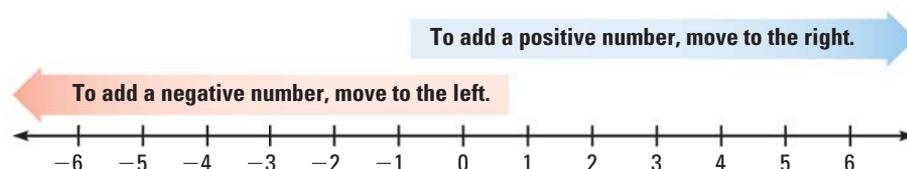
Why?

So you can calculate a sports score, as in Ex. 57.

Key Vocabulary

- additive identity
- additive inverse

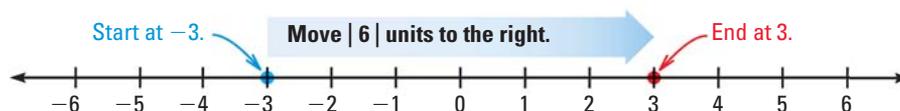
One way to add two real numbers is to use a number line. Start at the first number. Use the sign of the second number to decide whether to move left or right. Then use the absolute value of the second number to decide how many units to move. The number where you stop is the sum of the two numbers.



EXAMPLE 1 Add two integers using a number line

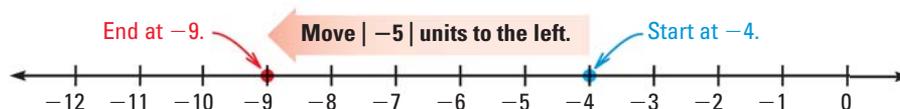
Use a number line to find the sum.

a. $-3 + 6$



► The final position is 3. So, $-3 + 6 = 3$.

b. $-4 + (-5)$



► The final position is -9 . So, $-4 + (-5) = -9$.



GUIDED PRACTICE for Example 1

Use a number line to find the sum.

1. $7 + (-2)$

2. $8 + (-11)$

3. $-8 + 4$

4. $-1 + (-4)$